



#### Customize Your Wireless Network

Alaska State Library Tech Talk

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Find related resources at http://lam.alaska.gov/wireless

#### Learning Objectives



- At the end of this talk, you'll be able to:
  - Locate and identify your wireless router
  - Know how to locate manual and/or manufacturer support site.
  - Know how to access your router's dashboard/control interface
  - Know how to reset a router to factory settings
  - Be able to change basic settings
  - Know how to use your router for network storage depending on model
  - Know two ways to connect a printer to your wireless network
  - Know what Quality of Service (QoS) is and whether you have control

### Finding and Identifying





#### Things to look for

- Items near your wall
- Might have antennas
- Might have model number
- Will have a jack for "internet" and may have Ethernet ports.









#### If Your Manual Has Walked

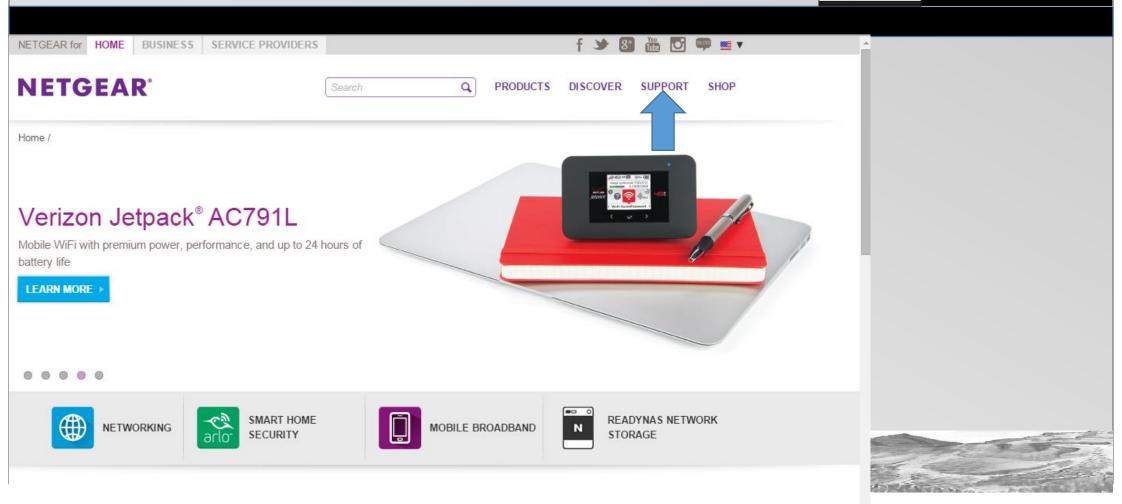


- Try your manufacturer's web site, choose "support" from their menu, then your model number.
- Search your make and model number (i.e. NETGEAR N600, Amped RTA1750, etc) in your favorite search engine
  - Pay attention to the URLs in your search results

#### Browsing to a Manual: NETGEAR









Alaska State **LIBRARY** 

NETGEAR for HOME BUSINESS SERVICE PROVIDERS













**NETGEAR**°

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SUPPORT

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Introducing Arlo Q™

1080p HD Security Camera wi

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**Get Support** 

Arlo Q





SMART HOME **SECURITY** 



MOBILE BROADBAND



READYNAS NETWORK STORAGE





NETGEAR Support / Downloads

## Welcome to the new NETGEAR Download Center!

To find documentation, firmware, software, or other files, enter a whole or partial Model number in the text search box, or use our Product Drilldown to locate your device.



#### Enter a Product Name/Model Number

WNDR3400v2 × Q

Search for: ✓ All ☐ Documentation ☐ Firmware/Software

Country: United States

Or browse and select your product:

PRODUCT DRILLDOWN >

#### NETGEAR, Continued





#### Enter a Product Name/Model Number Or browse and select your product: PRODUCT DRILLDOWN WNDR3400v2 **Search for:** ✓ All ☐ Documentation ☐ Firmware/Software United States 🗸 Country: WNDR3400v2 Documentation 03 Results Firmware/Software 08 Results Genie Apps User Manual Firmware Version 1.0.0.52 Release Notes Installation Guide Firmware Version 1.0.0.38 **User Manual** Release Notes Firmware Version 1.0.0.34 Firmware Version 1.0.0.16 Firmware Version 1.0.0.12

ReadySHARE™ Access

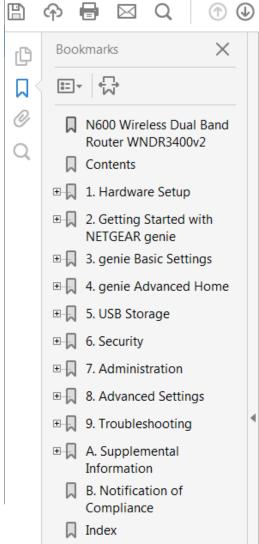
NETGEAR Genie App (Windows)

NETGEAR Genie App (Mac)

#### NETGEAR, Continued









#### **NETGEAR**°

N600 Wireless Dual Band Router WNDR3400v2

User Manual



#### Getting to Your Router Dashboard



- Best You already know your login info, changed from default
- Good Check your manual for the default admin settings.
- If you have to guess:
  - Where: 192.168.1.1, 192.168.1.2, 192.168.3.1, www.routerlogin.com
  - ID: admin
  - PW: password, admin (Not making this up)
- If none of these work and you're desperate, reset to factory settings

# Resetting Your Router to Factory Settings



- Use as last resort Loss of all customizations
- How reset works varies examples
  - Amped Hold down reset button on back panel for 30 seconds
  - LinkSys Press and hold reset button until power indicator flashes
  - NETGEAR Use a paper clip to press and hold the "Restore Factory Settings" button on the back of the router for at least five seconds.
  - TP-Link Push the WPS button for more than five seconds or until all the LEDs flash together at once.

#### Basic Settings: NETGEAR







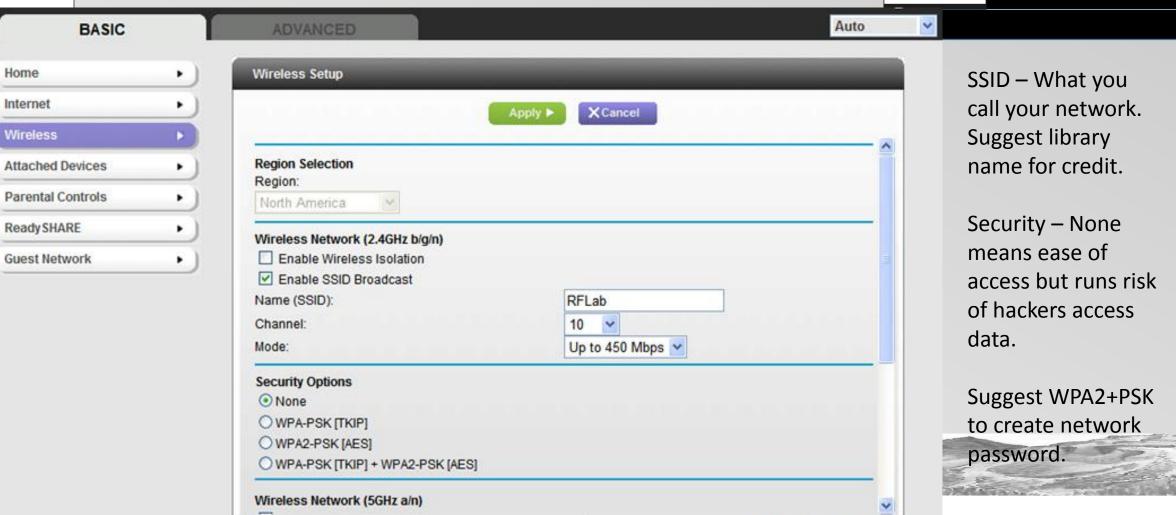




#### Basic Settings, NETGEAR - cont

(2) Help Center





Show/Hide Help Center

# Setting Wireless Availability Schedule Alaska State Library Library Development



Auto BASIC ADVANCED ADVANCED Home Schedule Setup Wizard X Cancel Apply ▶ WPS Wizard ▶ Setup Days to Block: ✓ Every Day ▶ USB Storage ✓ Sunday ▼ Security ✓ Monday Parental Controls ✓ Tuesday **Block Sites** Wednesday **Block Services** ✓ Thursday Schedule ✓ Friday E-mail Saturday Administration Time of day to block:(use 24-hour clock) Advanced Setup ✓ All Day Start Blocking Hour Minute End Blocking Hour Minute Time Zone

(GMT-08:00) Pacific Time (US & Canada): Tijuana

Help Center

To get here in NETGEAR, Click on the "Advanced" tab, then click on "Security" -> Schedule.

Note that this are times to start and end blocking internet access. So if you wanted wireless to be only be available while the library was open and you were open 1-6pm every day, you'd block from 6:01pm – 12:59pm.

Other brand routers can offer more control.

Show/Hide Help Center

#### USB Storage



- Allows you to hook a flash drive or external hard drive to your wireless network.
- Feature of most modern routers. If yours has a USB port, probably supports this feature.
- Can specify drive as read only or read/write. Can also password protect it.

#### USB Storage - Why Bother?



- Save bandwidth by local storage of important government forms.
- Serve materials you may not post to the open internet

### USB Storage: NETGEAR



Home
Internet
Wireless
Attached Devices
Parental Controls
ReadySHARE

**Guest Network** 

BASIC



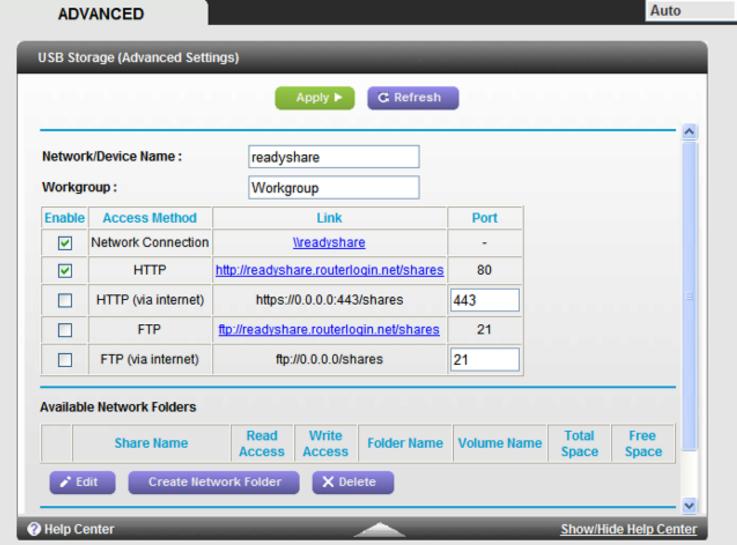
#### USB Storage: NETGEAR





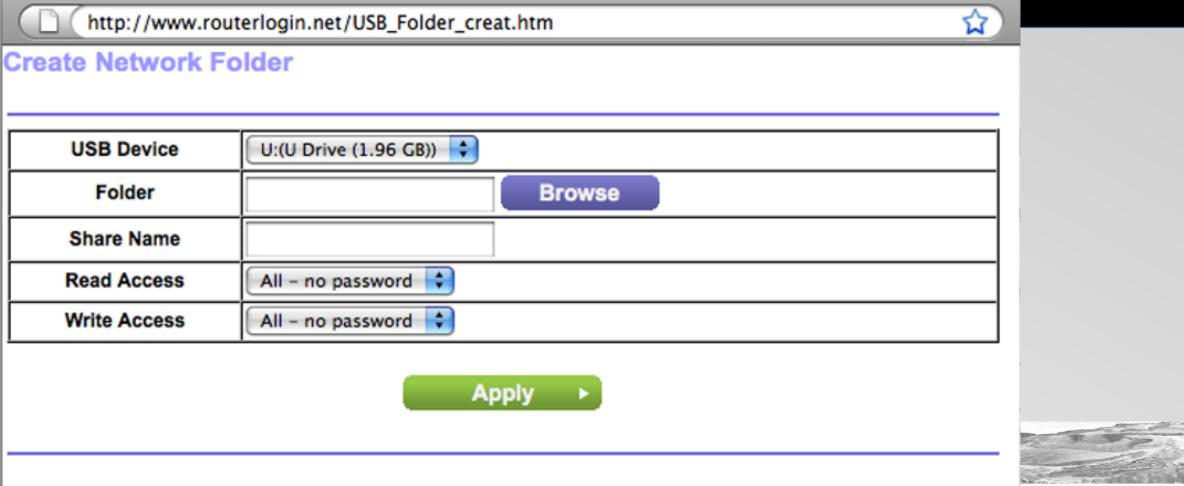
ADVANCED Home Setup Wizard WPS Wizard ▶ Setup ▼USB Storage Basic Settings Advanced Settings Media Server Security ▶ Administration

▶ Advanced Setup



#### USB Storage: NETGEAR





**Close Window** 

#### Printing on a Wireless Network



- Two ways to connect a printer to a wireless network
  - Use a wireless printer (easiest!)
  - Connect USB printer to your router (If supported)
    - May require router specific software
- Adding the printer
  - Laptops/desktops, use the add printer wizard in Windows
  - Mobile devices consult your printer's support site, will likely require patron to download app.

#### Quality of Service (QoS)

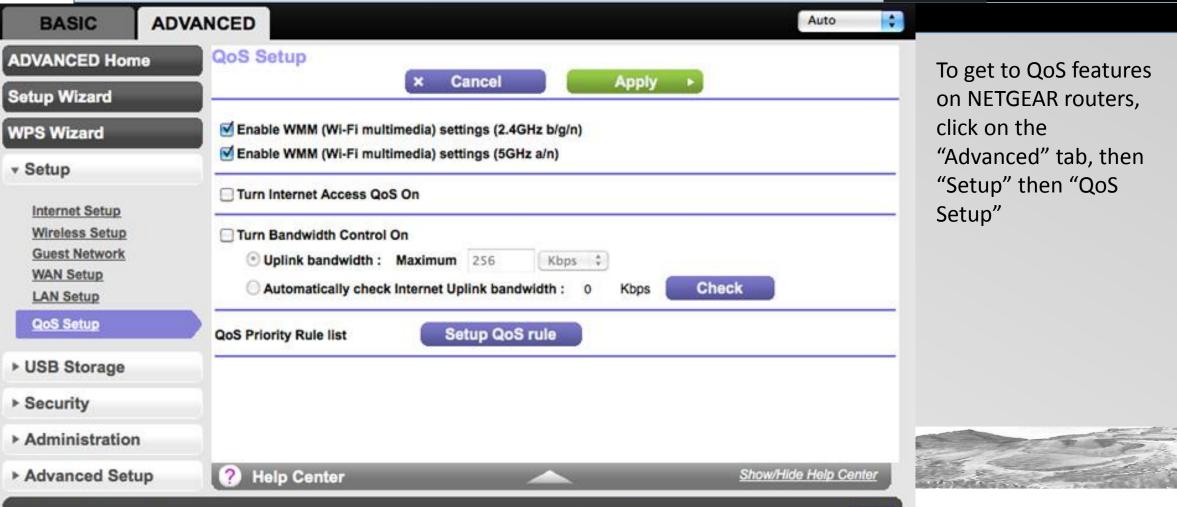


- QoS = optimizing some services over others
  - Could optimize video for webinars and YouTube
  - Could optimize non-video functions to discourage video usage
  - Provided to you at ISP level for your OWL video connection
  - Can also implement for a specific workstation
- How QoS is implemented varies by manufacturer
- QoS optimizes what you have doesn't give you more bandwidth

#### Quality of Service (QoS): NETGEAR







## Quality of Service (QoS): NETGEAR Alaska State LIBRARY





|                |                      | Andre                 |   |
|----------------|----------------------|-----------------------|---|
| BASIC          | ADVANCED             | Auto                  | ~ |
| NCED Home      | QoS - Priority Rules |                       |   |
| Wizard         |                      | Apply ▶ XCancel       |   |
| /izard         |                      | Apply 1               |   |
|                | Priority             |                       |   |
| et Setup       | QoS Policy for       |                       |   |
| less Setup     | Priority Category    | Applications          |   |
| Setup          | Applications         | Add a new application |   |
| Setup          | Priority             | Normal V              |   |
| Setup          |                      |                       |   |
| <u>Network</u> | Specified Port Range |                       |   |
| torage         | Connection Type      | TCP/UDP 🕶             |   |
| ırity          | Starting Port        | (1~65535)             |   |
| nistration     | Ending Port          | (1~65535)             |   |
| nced Setup     |                      |                       |   |





# QQA

#### Contact Information



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Resources referenced in this talk may be found at <a href="http://lam.Alaska.gov/wireless">http://lam.Alaska.gov/wireless</a>